

# D-31 Series, Rated up to 100 Amps, 115/200 VAC, 400 Hz

#### **Product Facts**

- 3PDT, Center off
- Hermetically sealed
- Auxiliary contacts available
- Meets many requirements of MIL-PRF-6106



#### **Performance Data**

#### **Electrical Characteristics**

Contact Arrangement —

3PDT, Center Off

Rated Operating Voltage —

115/200 VAC, 400 Hz, 3 phase **Resistive Rating** — 100 Amps

### **General Characteristics**

**Temperature Range** — -55°C to +71°C

Operating Cycles (Life) at Rated Resistive Load, Min. —

50,000 cycles

1,000 Vrms

Operating Cycles (Life)

Mechanical, Min. — 100,000 cycles

Dielectric Strength —

All Circuits to Ground — 1,500 Vrms Circuit to Circuit — 1,500 Vrms Coil to Ground and Aux. Contacts —

**Altitude** — 50,000 ft

Weight, Max. — 2.31 lbs

### **Coil Characteristics**

**Duty Cycle** — Continuous

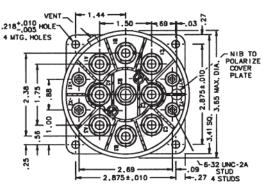
Pickup Voltage @ 71°C, Max. —

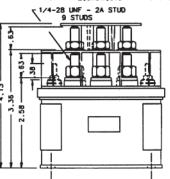
18 Vdc

Dropout Voltage, Max. —

1.5 to 7 Vdc

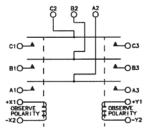
Coil Resistance ±20% @ 25°C — 160 Ohms





Mounting Style A

**Circuit Configurations** (Consult factory for other available circuit configurations)



Circuit Configuration 1

For factory-direct application assistance, phone 419-521-9500 or fax 419-526-2749.

HARTMAN	Construction	Mounting	Coil	Circuit	TE
Part Number	Type	Style	Type	Config.	Part Number
D-31C	Gasket/Vented	Α	Continuous	1	1616049-1

Catalog 5-1773450-5



# D-31 Series, Rated up to 100 Amps, 28 Vdc

#### **Product Facts**

- SPDT, Center Off, **Double Break**
- Gasket Sealed, Vented
- Meets many requirements of MIL-PRF-6106



#### **Performance Data**

#### **Electrical Characteristics**

Main Contacts -

Main Contact Configuration — SPDT, Center Off, Double Break

Voltage, Nom. — 28 Vdc

Resistive Rating — 100 Amps

**Inductive Rating** — 100 Amps Motor Rating — 80 Amps

**Overload Rating** — 800 Amps

**Rupture Rating** — 1,000 Amps

Auxiliary Contacts -

Aux. Contact Configuration —

SPST, NO

Voltage, Nom. — 115 VAC, 400 Hz

or 28 Vdc

Resistive Rating — 3 Amp

Inductive Rating — 3 Amp

Lamp Rating — 1 Amp

#### **General Characteristics**

Temperature Range —

-55°C to +71°C

Operating Cycles (Life) at Rated Resistive Load, Min.

50,000 cycles

Operating Cycles (Life)

Mechanical, Min. — 100,000 cycles

**Altitude** — 50,000 ft.

Weight, Max. — 1 lb 15 oz

#### **Coil Characteristics**

**Duty Cycle** — Continuous

Coil Data, X Coil -

Operating Voltage, Nominal —

115 VAC, 400 Hz

Pickup Voltage @ 25°C, Max., Initial — 75 VAC, 400 Hz

Dropout Voltage @ 25°C —

12 V to 38 V

Coil Resistance ±20% @ 25°C — 655 Ohms

Coil Current @ 25°C -

.050 Amp DC AV @ 115 VAC, 400 Hz

Coil Data, Y Coil -

Operating Voltage, Nominal —

28 Vdc

Pickup Voltage @ 25°C, Max.,

Initial — 15 VDC

Dropout Voltage @ 25°C —

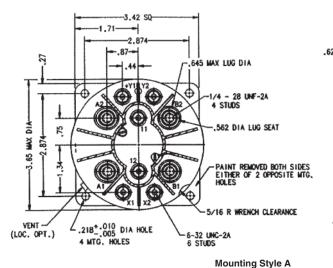
2.0 V to 6.5 V

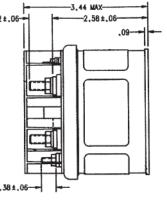
Coil Resistance ±20% @ 25°C -

163 Ohms

Coil Current @ 25°C —

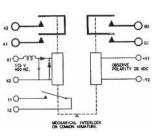
.215 Amp Max. @ 28 Vdc





### Circuit Configurations

(Consult factory for other available circuit configurations)



**Circuit Configuration 1** 

For factory-direct application assistance, phone 419-521-9500 or fax 419-526-2749.

HARTMAN	Construction	Mounting	Coil	Circuit	TE
Part Number	Type	Style	Type	Config.	Part Number
D-31BAA	Gasket/Vented	Α	Continuous	1	1616097-1